

TUESDAY, August 22, 2017

Time	ROOM A	ROOM B	ROOM C	ROOM D	ROOM E
8:45–9:25	PLENARY LECTURE M. Spohn: Phosphorus cycling in temperate forests				
9:30–9:50	F. Hagedorn: Tracking the sources and fate of dissolved organic matter in soils: Insights from labelling and radiocarbon studies	M. M. Savard: Atmospheric N – Isotopic inheritance and fractionation	J. L. Stoddard: Large-scale increases in phosphorus in undeveloped catchments across the United States: Are oligotrophic systems disappearing?		B. C. Forbes: Siberian steppe-tundra ecosystems: Gradients of diversity and productivity in space and time
9:50–10:10	N. Catalán: Dissolved organic matter reactivity across aquatic ecosystems and scales	L. Veerman: The long-term fate of deposited N in coniferous forest ecosystems across Europe	B. J. Huser: Long-term phosphorus concentration declines in lake: Effects of climate, deposition, and in-lake cycling on P availability in Swedish boreal systems		E. Potapov: Apparent trends in the number of the mammals and birds in the Kolyma's typical tundra subzone in the past 30 years: Effect of climate change or direct human impact?
10:10–10:30	T. Lambert: Landscape and hydrological controls on the downstream transport of dissolved organic matter in the Congo and Zambezi rivers	G. Gebauer: Hydrogen stable isotopes in organic matter – an underrepresented tool in ecological and environmental studies	G. B. Lawrence: Monitoring forest soils over time to understand acidic deposition effects and recovery		C. Beer: Northern high latitude carbon mean residence times across systems and scales
10:30–10:45	COFFEE BREAK				
10:45–11:05	J. Ide: Comparisons of molecular species of dissolved organic matter in throughfall between conifer plantations and broad-leaved forests in western Japan	B. Mayer: Multi-isotope tracing (N, O, S, B) of sources and fate of nutrients in riverine systems of Western Canada	P. Schleppi: Nitrate leaching from a sub-alpine coniferous forest subjected to experimentally increased N deposition for 20 years, and effects of tree girdling and felling	O. López-Costas: Atmospheric metal pollution in Roman times: Human skeletons as archives	H. Šantrůčková: Significance of dark CO ₂ fixation in arctic soils
11:05–11:25	K. Bowering: Water drives the quantitative transport of dissolved organic matter in boreal regions with high annual rain and snowfall	S. K. Wexler: Nitrous oxide flux and nitrate isotopic composition in an agriculturally impacted catchment	J. Hruška: Forest re-growth and DOC increase may reverse recovery from acidification in acid-sensitive areas of the Central Europe	K. Hansen: Wet deposition of nitrogen and sulphur compounds in Sweden over 60 years, 1955–2014	K. Butterbach-Bahl: Long-term monitoring of biosphere-atmosphere exchange of N ₂ O and CH ₄ fluxes at forest and grassland sites: What are the requirements to improve its usefulness for climate change studies?
11:25–11:45	S. E. Ziegler: Increased soil dissolved organic carbon fluxes with temperature and precipitation along a boreal forest climate transect	L. C. Andresen: Free amino acid dynamics in the soils of Eucalyptus FACE	W. Schaaf: Twelve years of monitoring the ecological development of a constructed catchment	M. Mętrak: Development of a high-mountain lake in the Eastern Pamir, Tajikistan: Climatic and anthropogenic influences	A. I. Gärdenäs: Indications of a shift in microbial community composition induced by long-term nitrogen load
11:45–12:05	D. T. Monteith: An internationally consistent relationship between long-term change in dissolved organic carbon concentration and the ionic strength of remote surface waters	E. A. Golovatskaya: The change of the carbon ($\delta^{13}\text{C}$) and nitrogen ($\delta^{15}\text{N}$) stable isotope composition in the decomposition process of peat-forming plants	S. A. Norton: Stream cation and Al trajectories during acidification and recovery at the Bear Brook Watershed in Maine, USA	P. Baldrian: Response of the microbial community in a coniferous forest to changes in C flux	N. P. Rosenstock: Implications of nitrogen deposition effects on ectomycorrhizal communities for forest health and nutrient uptake
12:05–12:25	H. A. de Wit: Changes in browning rates between the 1990s and 2000s in Europe and North America – the unusual suspect?	J. Chen: Gallium isotope analysis and possible application	N. Zavalishin: Dynamic models of biotic turnover in typical oligotrophic peatland landscapes of middle and southern taiga in Western Siberia	I. Djukic: Litter decomposition patterns and dynamics across biomes: Initial results from the global TeaComposition initiative	E. Remy: Nutrient cycling in forest herbs: Disentangling interacting effects of past and present environmental changes in a multi-factor experiment

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12:25–13:25	LUNCH				
13:25–14:05	PLENARY LECTURE S. Manzoni: Nutrient constraints on metabolism from microbial communities to ecosystems				
14:10–14:30	M. Camino-Serrano: Modeling dissolved organic carbon dynamics in the land surface model ORCHIDEE-SOM	R. Hindshaw: Monitoring the extent of water-rock interaction in permafrost dominated catchments using Li and U isotopes	M. Maljanen: Emissions of nitrous acid (HONO), nitric oxide (NO), and nitrous oxide (N ₂ O) from N-rich soils and horse dung samples	S. A. Zimov: Pasture ecosystems can mitigate permafrost thawing	P. Čapek: Plant-microbial interaction induces global nitrogen and phosphorus co-limitation of primary production
14:30–14:50	D. Zak: Mobilization of dissolved organic matter in rewetted peatlands: Implications for downstream systems	G. Steinhoefel: Quantifying shale weathering by Li isotopes at the Susquehanna Shale Hills Critical Zone Observatory	T. Rütting: Geographical variation in gross nitrogen mineralization in Amazonian forest soils	K. Gavazov: Ecological assessment of permafrost thaw: Do plant-soil interactions matter?	S. Vicca: Nutrient effects on plant carbon allocation: The role of mycorrhizal fungi
14:50–15:10	J. Shanley: DOM hysteresis in the Connecticut River basin, USA: Insight on DOM sources and processes		Y. Inagaki: Leaf life span and mean residence time of nitrogen in hinoki cypress forests in Japan	K. Diáková: Decomposability of old organic carbon in permafrost-affected arctic soils	O. Franklin: The role of mycorrhiza for carbon storage in forests: An ecosystem perspective
15:10–15:25	COFFEE BREAK				
15:25–15:45	M. Forsius: Observed and predicted future changes of total organic carbon in Lake Päijänne catchment (southern Finland): Implications for water treatment of the Helsinki metropolitan area	A. Tietema: The carbon balance of an aging heathland	M. I. Makarov: Nitrogen in alpine ecosystems of the Northern Caucasus	C. Voigt: Carbon flux dynamics before, during, and after permafrost thaw in subarctic tundra	A.-K. Bergström: Changes in climate and atmospheric deposition induce differences in plankton stoichiometry and limitation and regeneration of nutrients in northern lakes
15:45–16:05	W.-J. Zhou: The role of hydrological processes transporting carbon in the carbon budget of a tropical rainforest	C. Meyer-Jacob: Long-term perspectives on lake-water organic carbon levels in NE North America: Linking monitoring data and paleolimnological reconstructions	G. M. Gettel: Nitrogen biogeochemistry in the Lake Victoria Basin: Sources, sinks and challenges for food security and water quality	H. Aaltonen: Effects of forest fire on soil temperature sensitivity, respiration and soil organic matter quality in Canadian permafrost	K. Karhu: Priming effects in boreal soils explained by stoichiometric drivers
16:05–16:25	M. Lämätäinen: Granulated wood ash fertilization increases tree growth but also peat decomposition in boreal peatland forests	A. Räike: Trends in organic and inorganic carbon export from Finnish rivers to the Baltic Sea	Z. Sheng: Effects of nitrogen deposition on a temperate grassland in Inner Mongolia, China	J. P. van Leeuwen: Soil food web assembly and vegetation development in a glacial chronosequence in Iceland	Y. Mau: Stochastic dynamics of soil nutrients
16:25–16:45	P. Straková: Fine root production and soil organic matter quality measured using infrared spectroscopy			E. A. Zarov: Estimation of carbon and nitrogen stock in tundra soils of the Taz Peninsula and adjacent territories on the basis of field survey and satellite images	H. Y. Gan: Coupling of carbon and nutrient mineralization: What is the role of land use?
16:45–18:00	POSTER SESSION <i>Invited talks are on gray background</i>				